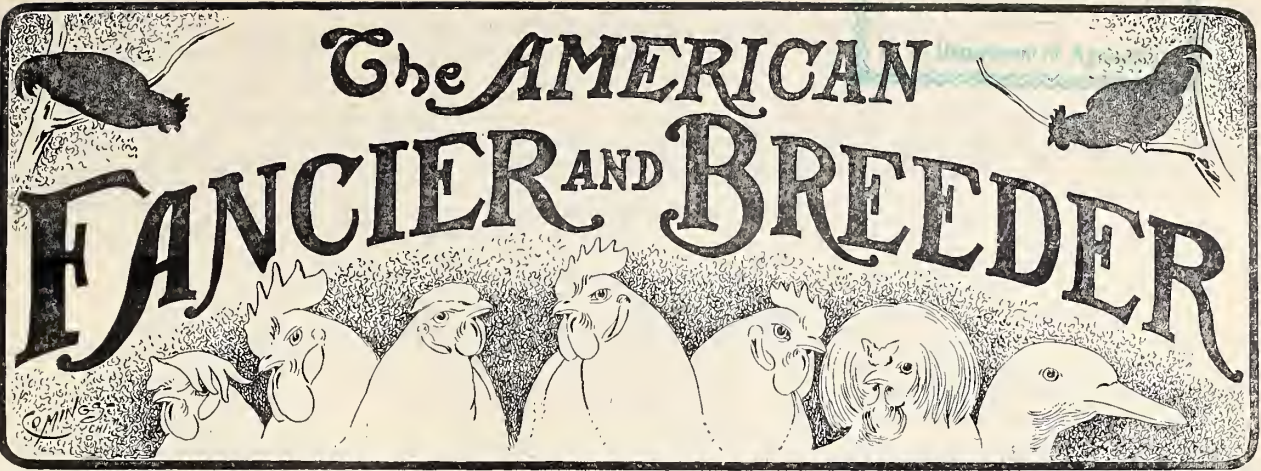


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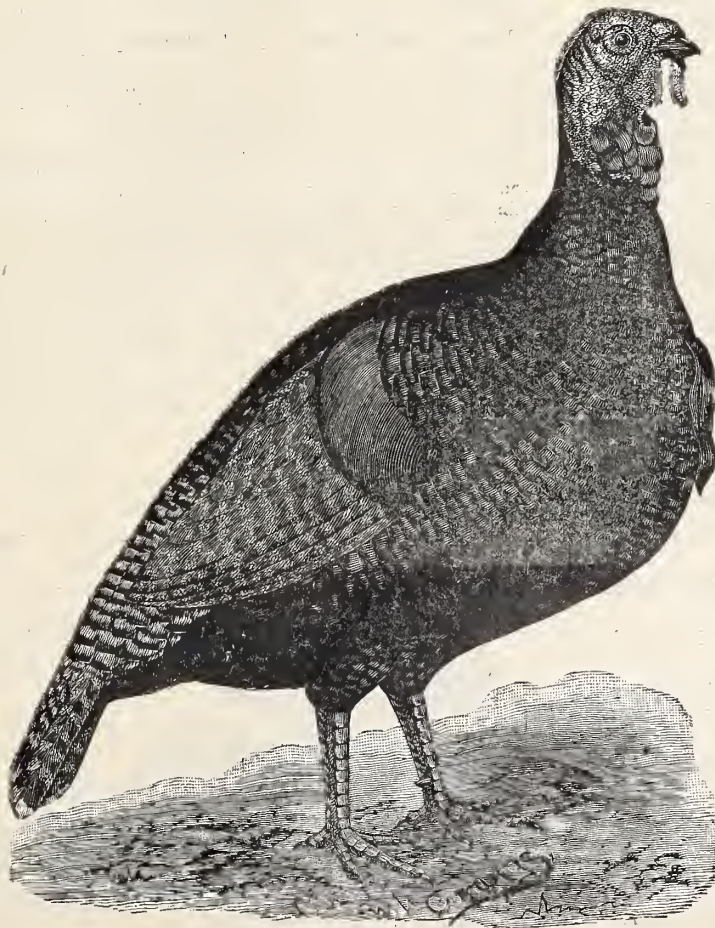
The **AMERICAN**
FANCIER AND **BREEDER**



Vol. 20.

De Kalb, Illinois, November, 1903.

No. 11.



America's Thanksgiving Bird.

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Publisher and Editor.

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HOMES

IN OLD VIRGINIA.

It is gradually brought to light that the Civil war has made great changes. freed the slaves, and in consequence has made the large land owners poor and finally freed the land from the original holders who would not sell until they were compelled to do so. There are some of the finest of land in the market at very low prices, land that produces all kinds of crops, grasses, fruits, and berries; fine for stock. You find green truck patches, such as cabbage, turnips, lettuce kale, spinach, etc, growing all the winter. The climate is the best all the year around to be found, not too cold nor too warm. Good water. Healthy. Railroads running in every direction. If you desire to know all about Virginia send 10c. for three months subscription of the VIRGINIA FARMER to the Farmer Co., Emporia. Va.

THE HONORS AWARDED

To my Buff Leghorns during the past eight years, in which they have been bred, probably exceed in number those awarded to any other breeds. I have this year for the first time, under color on females and females as good as the Buff Cochins, no one has got better, at least I have not heard of it. Large circular free. Eggs \$2,

Ceo. S. Barnes.

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Rock Combination of Silica, Aluminum, Magnesium and 12 per cent. of Iron

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DeKalb, Illinois.

Money in Honey!

The American Bee-Keeper

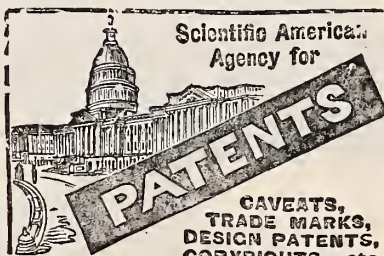
is an illustrated monthly of 40 pages, which deals with every phase of the 'bee-keepers' art, and labors especially in the interest of the inexperienced. Its contributors are the world's best. Its editor is acknowledged to have had a wider bee-keeping experience than any other bee paper editor in America. **THE BEE NEWS OF THE WHOLE WORLD IS GIVEN EACH MONTH.**

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may be obtained through me. No matter where located. Send description and selling price and learn my plan. **W. M. Trautner, 1215 Filbert St., Phila., Pa.**

White WYANDOTTES

and Golden Sebright Bantams

of the choicest breeding for sale. All bred from high scoring pens. Eggs for hatching. Write for prices and full information. **Lloyd E. Thompson, Sterling, Ill.**

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Send 25 cents for a year's subscription to **THE RURAL SUN** a large, illustrated monthly devoted to Poultry, Pigeons, Pet Stock, Farm and Home, e. c., and your card will be inserted in Breeder's Column, one year free. Circulation 5,000.

S. A. Carrick, Orangeville, Md.

The Rural Sun

PATENTS

Send 25 cents and we will send you the **PROGRESSIVE AMERICAN** (the Patent Authority of America) and the **AMERICAN FANCIER AND BREEDER** for a 3-month's trial subscription and if you have an idea on which you wish to secure a patent we will upon receipt of a description, sketch, or model of your invention, have made for you, **Free of Charge,** a guaranteed search of the Patent Office Records to ascertain whether a valid patent with broad claims can be secured by you on your idea. (The regular charge is \$5.00.) If you subscribe for **PROGRESSIVE AMERICAN** this search will cost nothing. We make this liberal offer trusting that our efforts in your behalf will induce you to become a permanent subscriber. If we find that your idea is patentable we will get you a Certificate of Patentability which will be of great assistance to you in raising capital. Write today. **PROGRESSIVE AMERICAN, 57 North 13th St., Philadelphia, Pa.**

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Standard Poultry Journal
Gravitt, Ia.

OREGON, WASHINGTON,

IDAHO, and the Northwest Pacific Coast. You want to know all about their wonderful resources. Send stamp for sample copy of the great agricultural paper of that section. **NORTHWEST PACIFIC FARMER, Portland, Oregon**

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You learn all about Virginia Lands, Soil. Water Climate. Resources, Products, Fruit, mode of cultivation, price, etc., by reading

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Send 10c. for a three months subscription to **FARMER Co.,**

16-1f **EMPORIA, VA.**

The American FANCIER and BREEDER.

A MONTHLY MAGAZINE DEVOTED TO POULTRY CULTURE.

Vol. 20.

DE KALB, ILLINOIS, NOVEMBER, 1903.

No. 11.

SAVING OF SEED CORN.

FROM UNITED STATES DEPARTMENT OF AGRICULTURE. WASHINGTON, D. C.

There is nothing of more importance to the farmers throughout the corn belt of the United States than the quality of seed corn. The Bureau of Plant Industry of the United States Department of Agriculture states that in the northern part of this area special precautions are always necessary in saving seed on account of the short season and the consequent difficulty in getting seed which is fully matured. In a season like the present these conditions hold good over a larger area than usual.

Most of the corn is in the field at the present time and, if not immature, it at least contains a large percentage of moisture. If this moist corn is left in the present condition until after the cold weather the freezing will kill a large part of the seed and the planting of this poor seed will mean a thin stand next year.

Where the seed corn has not already been obtained it should be selected at once. Pick out only thoroughly matured ears or, if none can be found that are thoroughly matured, take the ripest to be had. Husk and put in a dry, well ventilated place kept at a temperature of from 75 to 100 degrees Fahrenheit and let them remain there until the seed is thoroughly dried and cured. After it has been dried it should be stored where it will remain reasonably dry and cool. It is only when the seed contains a large percentage of moisture that the germination is injured by freezing. If a little trouble is taken now in selecting and caring for next year's seed, the stand and consequent yield will be greatly increased.

In all cases seed should be tested for germination a short time before planting, and only such seed planted as is found to be in condition. Seed tests can be made easily and often more conveniently at home, but the Seed Laboratory of the United States Department of Agriculture, so far as its working force will allow, is prepared to make tests for corn growers without charge.

IMPORTANT POINTS TO BE OBSERVED.

- 1 Select fully matured seed or least the ripest that can be found
- 2 Bring the corn from the field before freezing weather and keep it in a warm, dry place with ample ventilation, until thoroughly dried
- 3 Store in a dry and cool place.
- 4 Test for germinations before planting.

World's Fair Poultry Superintendent.

T. E. Orr, Secretary and Treasurer of the American Poultry Association, has been appointed Superintendent of Poultry at the Louisiana Purchase Exposition under Chief F. D. Coburn of the Department of Live Stock. Mr. Orr has already begun active work, and will devote considerable time during the winter at poultry shows and meetings and elsewhere among leading fanciers in behalf of the World's Fair poultry show.

Mr. Orr has not been a candidate for the position, and his tender came as a surprise to him, while the acceptance of the place was at a considerable personal sacrifice. Friends of several of the leading and most efficient poultrymen in the country urged their names for consideration, and the selection of Mr. Orr came as a result of a most thorough canvass of the entire situation by the Exposition management.

Superintendent Orr is a native of Virginia but is best known in the live stock world as a Pennsylvanian. After graduating from college he began teaching, but in 1886 he became an editor on the staff of the National Stockman and Farmer of Pittsburg. He continued in this work for fifteen years, and since 1901 has given his time to the care of his farms, lecturing at institutes and agricultural colleges and judging and other work in connection with the poultry industry.

The World's Fair management and the American Poultry Association are working in utmost harmony, and the selection of Mr. Orr for so conspicuous a position is a guarantee that the entire poultry industry rather than factional or sectional interests is to be conserved at St. Louis.

Poultry, Pigeons and Pet Stock are placed in Division "E" in the World's Fair classification and have been allotted over \$16,000 for cash prizes. The dates for these shows are October 24 to November 5, 1904.

Ration for Winter Eggs.

Mr. James Shackleton tells in American Poultry Journal how he gets winter eggs as follows.

Our Wyandottes are fed balance rations so composed that the total food served each day have approximate one to four nutritive ratio, outside forage being disregarded in the balancing, because it is usually perfectly balanced in itself. By a nutritive ratio of one to four we mean that the carbohydrates and fat in the foods are four times the weight of the protein and also that the ra-

tion are made up from food of animal, grain or vegetable origin. The animal foods used are animal meals, fresh raw cut bone. The grain foods used are wheat, corn, oat, and other by products of milling processes. Of these we buy and use whatever appears to be the cheapest at the particular time, having regard to its average analysis and we have never found any other reason to prefer any one grain or mill product over another. The vegetable foods in summer are refuge cabbage leaves, lettuce, turnip tops or anything similar that happens to be available; in winter, anything procurable of this nature, but our main reliance is on clover meal.

We feed only twice a day all the year, with an occasional meal at midday in the coldest and stormiest weather. The forcing meal is whole grain scattered on the ground in summer, scattered in scratching shed litter in winter. The evening meal is moistened mash of milling products, animal food and vegetable food.

As to quantity of food, little useful can be said, for size, age and breed call for great changes in that respect, and even another flock of Wyandottes might do well on different quantity from what we serve. The only measure of quantity from what we serve. The only measure of quantity we have is to get the birds into laying condition and keep them so neither gaining nor losing weight. The quantity we serve for morning meal varies one quart in summer, one and half quarts in moderate winter to two quarts in coldest weather. The evening mash before moistening varies between two quarts in summer, two and one half quarts in moderate weather to three quarts in coldest winter. These quantities are for twenty-five adult Wyandottes all females laying.

With these rations we find it easy to get at least 200 eggs per year per hen, provided they are not permitted to spend much time hatching. Of course other matters of maintenance are imperative as well as proper rations.

A water-proof roof on the poultry-house is a fine thing to have when the cold November rain falls. It will soon be too late to put on a new one or to repair the old.

Pet the turkeys and get them ready to celebrate. Feed generously and in such a way that they will not be overreached or deprived of their food by quicker motioned fowls.

Send copy for your trial advertisement at once.

TO ADVERTISE THE GREAT ST. LOUIS WORLD'S FAIR.

\$75,000.00 IN CASH PRIZES.

- FIRST PRIZE, \$25,000.00
- SECOND PRIZE, 10,000.00
- THIRD PRIZE, 5,000.00
- FOURTH PRIZE, 2,500.00
- FIFTH PRIZE, 1,500.00
- SIXTH PRIZE, 1,000.00

MISSOURI TRUST COMPANY,
 CAPITAL \$2,000,000. St. Louis, Mo., May 20, 1903.
 This certifies that The World's Fair Contest Company, incorporated, has this day deposited with this company \$75,000.00 in gold, for the payment of the awards in its contest on the total paid attendance at the Louisiana Purchase Exposition, 1903, and that said deposit is held in trust by this company to be paid by it to such successful contestants as the committee on awards may direct.

Jos. E. Stanley
 TREASURER
 Missouri Trust Co.
 of St. Louis.

AND \$30,000.00 IN 1,883 SMALLER PRIZES.

Can you estimate how many people will attend the St. Louis World's Fair? The 1,883 people whose estimates are the closest will receive \$75,000.00 in Gold. You have the same opportunity as any one else to win a fortune.

Every one has an opportunity to share in this great fortune to be paid to the successful contestants. This grand educational contest, undertaken in order to arouse interest in the greatest World's Fair the world has ever seen may bring you a fortune, and if you are careful in your estimates it is almost sure to bring you at least one of the prizes of \$50.00 or \$100.00, while you stand an equal opportunity to get the \$25,000.00. Hundreds of people will be made richer by competing in this great contest. Why not you? Every American should do all he can to help spread interest in the World's Fair, and when he can do this with profit to himself the reason for it is double. You cannot afford to overlook this grand opportunity to gain a fortune for yourself.

HERE ARE THE PRIZES.

To the nearest correct estimate.....	\$25,000.00
To the second nearest correct estimate.....	10,000.00
To the third nearest correct estimate.....	5,000.00
To the fourth nearest correct estimate.....	2,500.00
To the fifth nearest correct estimate.....	1,500.00
To the sixth nearest correct estimate.....	1,000.00
To the next 10 nearest correct estimates, \$200 each.....	2,000.00
To the next 20 nearest correct estimates, \$100 each.....	2,000.00
To the next 50 nearest correct estimates, \$50 each.....	2,500.00
To the next 100 nearest correct estimates, \$25 each.....	2,500.00
To the next 200 nearest correct estimates, \$10 each.....	2,000.00
To the next 500 nearest correct estimates, \$5 each.....	2,500.00
To the next 1,000 nearest correct estimates, \$1 each.....	1,000.00
Total.....	\$50,500.00

Supplementary Prizes for the Estimates sent in earliest..... \$15,500.00

\$15,500 IN EXTRA PRIZES WILL BE PAID TO THOSE WHO SEND IN THEIR ESTIMATES EARLIEST.

GRAND TOTAL OF CASH PRIZES.....\$75,000.00
INFORMATION THAT WILL HELP YOU ESTIMATE.

The total paid attendance at the Chicago World's Fair was.....	21,480,141
The total paid attendance at the Buffalo Pan-American Exposition was.....	5,306,859
The total paid attendance at the Omaha Exposition was.....	1,778,250

Without doubt the World's Fair at St. Louis will be the largest ever held in the world.

ESTIMATES 25 CENTS EACH. 5 FOR \$1.00.

CONDITIONS OF THE CONTEST—READ CAREFULLY.

Every one can enter and contest for these grand prizes. Write your estimates plainly on any kind of paper, (ordinary letter paper is the best), using a separate line for each estimate. It is of the utmost importance that you write your estimates and name and address plainly.

For each estimate you send in accompanied by the correct amount of money, a separate engraved and coupon numbered Certificate, issued by The World's Fair Contest Co., St. Louis, Mo., will be sent you with your estimate shown thereon. These certificates to be retained by you until the close of contest. YOU HOLD YOUR OWN CERTIFICATES. Get in your estimates early, as \$15,500 extra is to be divided among the earliest estimates received.

HOW THE CONTEST WILL BE DECIDED.—The Official Record of the Secretary of the World's Fair showing the total paid attendance will determine who are entitled to the prizes, and the awards will be made by a committee of prominent Judges. Prizes will be paid in cash immediately after. If more than one estimate is correct, the prize will be equally divided.

In addition to the \$25,000.00 prize, there is \$15,500.00 EXTRA prize money for the earliest correct estimates, so that you may win \$40,500.00 on an investment of 25 cents if you send in your estimates at once. Don't lay this aside intending to send in your estimate to-morrow. You may forget and thereby lose an extra \$15,500.00. Do it now.

CERTIFICATES AND HOW TO GET THEM.—One certificate will be sent for 25 cents. Five certificates for \$1.00. You can estimate as often as you wish. Bear in mind—you must send in your estimates and money for same before we can issue and send you certificates. We fill out the certificates inserting on a separate engraved, coupon numbered certificate, each estimate made by you. We then mail you the certificates. If you send One Dollar for five certificates, be sure and send five estimates.

A GOOD INVESTMENT—BETTER THAN STOCKS AND BONDS.—We are receiving from shrewd business men from the large trading centers, monthly orders for certificates, they claiming that the investment is safer and the possibility of large gain greater, than investment in bonds, life insurance or any of the speculative stocks offered on the Boards of Trade in the various Commercial Centers. Most of them purchase certificates systematically, that is, send in every month for from One to Five Dollars worth. Almost every one can economize a few cents a day and the funds thus saved, can be invested in certificates, and with a hundred or more certificates in your possession, you are likely to wake up some morning and find yourself the lucky possessor of an independent fortune. It hardly seems reasonable that with a hundred certificates one could miss ALL of the 1883 prizes. Address all communications to

American Fancier and Breeder Publishing Co., DeKalb, Ill.

Starting the Poultry Business.

Many persons are of the opinion that the poultry business is one that requires a mediocre sort of ability; that it is a tinkering, sputtering, old womanish kind of a business.

Many a man who has started in the business by investing considerable capital at the outset has had the above idea suddenly dispelled from his mind. The keeping of poultry is a business that may be started on a very small capital, but even though the beginning is

small if any success is attained there must be some special knowledge brought to bear in the care of the fowls from the start or failure will be the outcome. A man must have special knowledge to choose proper quarters even for a few fowls. If this is not done an endless amount of trouble is apt to follow. If buildings small or large are erected here again some special knowledge is necessary. At every step it will be found to be an occupation requiring a high form of technical skill if satisfactory financial results follow.

We would advise no one to go into the raising poultry extensively at the outset. Buy a few good fowls and at the same time begin posting yourself on the subject by reading extensively. Study closely the habits of the fowls themselves so as to find out the environments that are most congenial, the food that is the best adapted to their needs and the care they require generally. Remember that the poultry business is one of head work as well as work of the hand. Where one has a strong liking for the business and chooses to make this line of effort his life work it is often advisable to pick up the experience by hiring out to one who is as a successful poultryman. Where large numbers are dealt with one would pick up information rather more quickly than where the numbers are small, hence the advantage of the fundamental principles in a manner that involves no one in loss.

The statement has been made by a prominent financier that no man ever made a marked success in life who was content to work but seven or eight hours each day. Not but what he thought that this manner of hours of one kind of work was sufficient, but that a man who wished to achieve success must in addition exert himself by way of improving his mind or otherwise outside the hours of regular work. This is particularly true in the poultry if one expects to achieve any degree of success. They need attention early, late, and all the time. Wisconsin Farmer.

Cure of Young Chicks.

To prevent droopy chicks, set hens in clean nest in clean apartments. Dust the hen well insect powder after she has set a week. Grease the head of each as soon as hatched with sweet oil or lard, and no danger from head lice need be feared. Put the hens with chicks in a clean box or house. A new barrel under a bush is much better than an old box or coop that has suspicion of mite or lice. Feed often, just as they will eat; don't leave any to sour. If milk is fed, use it warm to mix meal or soften bread or cracker. Milk, sweet or sour, is not good for food hungry chicks, as they gorge themselves and soil their plumage with it. When used constantly like water for a drink it is good. Slop of any kind is not fit food for fowls. The very best food for young chicks for the first week is bread crumbs, corn meal, oatmeal and cooked potatoes, all dry not wet. Feed often and let them have a grass run when dry. After the first week mixed meal and table scraps may be fed. As soon as wheat or broken corn can be handled by them, feed this at night. A variety of food is good. Always remember that the gizzard is not intended to grind slop and you will have healthy fowls.—Commercial Poultry.

Winter is Approaching.

If you wish to derive the most profit from your laying stock, they must be looked after during this and the following month; get them in good condition before cold weather sets in. Naturally the hen will moult and get her new coat of feathers on before the first of November. This process of nature is weakening, it is true, to her system, and to pass through this successfully, retaining all her powers for egg production, she must be taken care of and given what nature calls for. This moulting or taking on a new coat of feathers can be helped along materially by feeding her feather-forming food.

You will notice how quick any animal will shed off in the spring and assume a sleek appearance when they are carefully taken care of. This is also true of all varieties of poultry; the only difference being in the time of year.

We usually raise a lot of sunflower seed and have found it a great aid to moulting stock. The way the ordinary farmer of the United States handles the poultry raised on their farms is a disgrace to them as practical men, much less to their birds. In a majority of cases they do not even provide their fowls with a house or any protection from the cold and chilly blasts of winter. If your "Biddy" is fortunate enough to find food of any kind lying around, all right and good; but if not, the owner says do without. She is not provided with a clean fountain from which she may secure her drinking water, but is expected to secure this around the manure heaps in the barn yard or do without as in the case of feed.

During the hot summer months do not fail to provide shade in some form. Half grown chicks and ducklings as well as moulted hens, are often materially injured by being exposed to the burning rays of the July sun and we have known death to follow from this cause.

If you will take notice you will find the most of the feathers dropped by the moulting stock under bushes or other shady places which these have access to which is evidence that they prefer such to being exposed to the rays of a summer's sun.

Their roosting quarters should be put in good shape before cold weather sets in. See that the new nest boxes are clear of mites or lice, new nesting material placed in them, plenty of straw or leaves put in for scratching material and everything placed in order the same as you would do for the successful handling of any other thorough-bred stock.

Laying houses for housing stock for winter should be commensurate with the number of birds to be kept. Do not crowd stock; better keep a smaller number than to crowd too many into a house. Unless the floors of laying houses are of dirt or loose sand, so that the stock can work up a good dust bath, we find it a good plan to place a 2x3 foot box, 6 inches deep each pen and

fill this about two-thirds full of road dust. A hen cannot thrive and thoroughly enjoy herself unless she has access to a good dust bath every day. This is the same to her as a bowl of water and comb and brush are to you.

Poultry that dust often you will always find free of body lice.

If they are aided through their moulting and get on their winter coat before cold weather comes on, then some paying results may be expected if they are provided with ample food of egg forming elements.

Western Fruit Grower.

Handling Broody Hens.

During the summer, hens of large breeds often give a good deal of trouble by their persistence in following the maternal instinct.

Many eggs are broken and spoiled by broody hens crowding into the nests with layers.

The best way, of course, is to let the hens have at least a chance to hatch a brood of chicks, even if taken away from them when hatched.

But the broody hens should be taken and kept off the nests intended for layers anyway.

If broken in the very beginning of their sitting desire, they will soon go to laying again, thus adding again materially to the egg yield instead of diminishing it by breaking or helping to break eggs in the nests.

Our way of handling broody hens is as follows: We have a small yard enclosed by a high poultry wire fence, with a pole for a perch across one corner.

As soon as a broody hen is found on the nest at night she is taken off and taken to this yard.

Should she be light on the wing, and manage to fly over the eight-foot fence, she is taken again as soon as found on the nest and put back after one of her wings has been clipped just enough to prevent her from succeeding in her flight the second time.

Here the broody hiddies are kept well supplied with food and fresh water.

Every third day the door is opened in the afternoon or evening, and the hens allowed to come out.

Most of them will go to their regular roosts at night.

Those that return to the nest to sit are again taken off and confined in the yard for another three-day period.

This will usually cure them.

We find this by far the easiest way to handle broody hens during the summer and early fall.

It avoids bad temper, bad language, waste of time on the hen's part, and a material increase in the hens yield—Practical Farmer.

SIO Buys a 200 Egg Perfect Hatcher and Brooder. Test & Illustrated Cir 2c. J. A. Chelton, Fairmount, Md.

The Eighth Annual Show OF THE National Fanciers' and Breeders' Association of Chicago

Will be held Jan. 25 to 30

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Poultry Pays Better

than anything else the farmer or fancier raises—if it is done right. Any old way will not do. The Reliable Poultry Journal is the source of more information on poultry than can be obtained elsewhere, and by studying it you can make your fowls pay a big profit. It tells how to get more eggs; how to prepare fowls for market, and all about poultry raising for exhibition. Fully illustrated. Send today for free sample copy RELIABLE POULTRY JOURNAL, BOX A-4, QUINCY, ILL.

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about the CLUBBING OFFERS of the MODERN FARMER?

Nothing like them was ever before made on this Continent.

Ask for FREE SAMPLE COPY, and learn all about them before you subscribe for any other paper. They will save you money.

Modern Farmer, St. Joseph, Mo.

G. S. BANTAMS.

I have a few very choice breeders from finest stock to be had. Will sell cheap if taken now. Room is needed for winter. Send for circular, free. LEA. M. MINGER, DeKalb, Ill.

The AMERICAN FANCIER and BREEDER

Published the 15th of each month.

By The AMERICAN FANCIER and BREEDER PUB., CO.

DE KALB, ILL., NOVEMBER, 1903.

Subscription Price.—25 Cents per year in advance. Single copies 3 cts. Subscriptions can commence with any month.

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We invite Correspondence on all subjects pertaining to poultry keeping. Send in your experience.

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This notice marked denotes that your subscription has expired. Please renew your subscription for another year.

The Fourth Annual Poultry Show given by the Association of Pontiac Michigan is to be held at Pontiac Michigan, February 2, 3, 4, 5, 6, 1904. Write to Daniel Thomas, Secretary, for premium list.

Hatching The Early Bird.

A YEARLY IMPROVEMENT IN PRICE AND MARKET FOR EARLY SPRING BROILERS.

It is coming to be the case with each succeeding year, that the cream of poultry profit is obtained by hatching, raising and sending to market the chickens that have come to be commercially known as "broilers." This term includes, in a general way, birds that weigh from 1 to 2¼ pounds at an age of from two to four months. Of course, the highest prices are obtained during the early part of the season, say from March to May. For this reason fully 90 per cent of poultry use the incubator exclusively, as it enables them to regulate the season and number of the hatch with entire independence of the hen, who need only furnish the eggs.

In the matter of incubators they have been brought to a point where they actually beat the hen at her own game. Manufacturers have closely studied the natural laws of incubation, and followed them minutely. In the machines made by George H. Stahl, of Quincy, Ill., known as the Excelsior and

the "Wooden Hen," every problem of heat, moisture and ventilation has been solved, and it is said they will hatch a greater percentage of hatchable eggs than the mother hen herself under ordinary conditions. Five minutes daily attention when in operation is all they require. Everyone interested in poultry should write George H. Stahl, Quincy, Ill., for his free catalogue of Incubators and Poultry Appliance. It is worth having.

MASH FOODS.

Mash food is the most expensive of all that are used because more of it can be made use of in the same time than in any other food. It passes more quickly into the intestine and is used in the manufacturing department much faster than are other and harder foods. The most benefit comes from cooked food, because so little of its value is wasted as it passes through the body. The real value of the mash food is the benefit derived from its use. Hens that produce a large number of eggs could not consume an equivalent in hard grains. It would not be possible for them to grind enough hard grain to provide all that is needed to sustain their bodies, keep them warm in winter, and produce the eggs.

For these reasons the mash is made use to aid in the continuous grinding of the food supply and for the same reason it is good for the growing fowls. It helps them to grow bone, body and feather faster than they could on a grain diet alone. The more quickly the food can be handled, and the more of it they can consume properly and completely, the faster will the young grow and the more eggs the hen will produce if properly handled. The best mixture for mash food is ground oats, ground corn, bran middlings, some clover meal and meat scraps. We should use a part each by measure of the grain and clover-meal and enough meat scrap to make one-tenth at least of the whole day's ration for each hen. Would feed the mash warm, not hot. When cooked all the vegetables and scraps of the same should be cooked in with the mash. Cut the vegetables small and mix well into the mash. Feed all they will eat of this once a day.

During the winter months the morning and evening meals should be of whole grain. This should always be thrown into the litter of straw for them to dig and hunt and scratch for. Wheat, oats and millet-seed are splendid for the morning meal. This gives them a lot of small grains to hunt and dig after and will keep them busy until noon, when the mash should be given. About three or four o'clock throw in a full feed of broken corn or whole corn, barley and wheat into the straw for them to hunt and dig after. This will keep them busy till dark if the litter is plenty and deep. More benefit comes from the exercise than one would think. It is the exercise that imparts health and vigor and this is the real secret of winter egg-production. Those who have this

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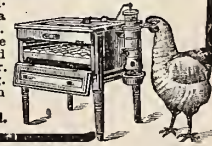
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kind of labor for their hens to perform to earn their living get plenty of winter eggs; those who neglect it do not and it is far better to have a foot and a half of straw for them to dig in than a thin covering of straw that does not call for much labor to find the grain. It is the hard, constant labor of digging all day that imparts the health and vigor that have so much to do with the egg-yield.

Show Dates, 1903-4.

This list of shows is, as far as we know, complete. If some are omitted we will be glad to have the secretaries inform us. All dates will be kept standing until the show occurs.

Nov. 9-14—Augusta, Ga. G W. Killingworth, Sec. 802 Broad Street.
 Nov. 11-13—Bristol, Conn. Judges, Felton Atherton, Pierce, Card, G W. Hull, ec.
 Nov. 23-28—Sheboygan Wis. Judge, Hewes. A. H. McIntyre, sec.
 Nov. 24-27—Lexington, N. C. Judges, Simmons, Harrel F. F. Grimes, sec
 Nov. 24-28—Erie, Pa. Judge, J. Y. Bicknell, A. E. Blethen, sec.
 Nov. 24-26—Brockton, Mass. C. A. Brown, sec.
 Nov. 24-28—Danbury, Conn. Judge, Dievenstedt. Chas. H. Brundage, sec;
 Nov. 23-28—Richmond, Va. Judge, Brown Frank Jenkins. sec. 517 W. Broad Street.
 Nov. 25-28—Saratoga, Pa. Judges, Staunton Yelton, Brackett and Hoffman. S. J. Kurtz, sec.
 Nov. 25-28—Prairie Depot, O. Judge. McClave, R. F. Bassey, sec.
 Nov. 27-28—Blum, Tex. Oscar Pogue, sec.
 Nov 30-Dec. 5—St. Louis, Mo. Judges, Russel and Butterfield. Ross C. H. Hallock secretary.
 Dec. 1-5—Oakland, Calif. J. C. Williams, secretary, Fruitville, Calif.
 Dec. 1-2—Greenfield, Mass. E. M. Carey, secretary.
 Dec. 1-5—Napoleon, O. Judges, McClave, Tucker, Carve, Horn. E Judson Davis, secretary.
 Dec. 1-5—Newark, N. J. Judges, Drevenstedt, Delano, Binfooy, Stanton Hulter. R. J. Bailey, secretary, East Orange, N J
 Dec. 1-4—Dallas, Texas. L. A. Wright, secretary.
 Dec. 1-4—Rising Sun, O. Judge, Tucker, E. M. Yambert, secretary.
 Dec. 1-5—Ottawa, Ill. Judge, Herbster and Moore. C. O. Diest secretary.
 Dec. 1-4—South Farmingham, Mass. Judges, Fox, Lambert, Ballow, Smith, Bumford, Graves, Gorse, Ingram. F. W. Jennings, secretary.
 Dec. 2-4—Faylerville, Ill. Judge, Rapp. Chas. L. Evans, sec. Palmer.
 Dec. 2-5—Matteawan, N. Y. Judge, Rockentyre. H. W. Millspaugh, secretary, Walden, N. Y.
 Dec. 2-5—Providence, R. I. W. S. Brown, secretary, 6 Exchange Place.
 Dec. 4-5—Elgin, Texas. E. G. Bryan, secretary.
 Dec. 6-12—Lawrence, Mass. F. E. Higgins, sec. N. Andover Depot, Mass.
 Dec. 7-10—Allegan, Mich. Judge, St. Clair. J. B. Buck, sec. South Nonterev, Mich.
 Dec. 7-12—Big Rapids, Mich. Judge, Hewes. B. W. Fellows, secretary.
 Dec 7 12—Aberdeen, Miss. J. R. Young, secretary
 Dec 7-11—Deathorn, Mich. Judge, Tucker. T. J. Owen, secretary.
 Dec. 7-17—Wilkesburre, Pa. W. L. Higg, secretary.
 Dec 8-12—Los Angeles, Calif. H. W. Kruckeberg, sec.
 Dec. 8-11 Hartford, Conn. Judges, Mc Grew, Stanton, Crangle, Bonfoey, Crowther Galylor. Chas. L. Balch, sec.

Dec. 8-10—Milford, Mass. Judges, Lambert, Atherton, Watson. W. H. Pyne, sec.
 Dec. 8-10—Northampton, Mass. Judges, Crangle, Stevens. C. E. Hodgkins sec
 Dec. 8-11—Aurora, Ill. Judge, Rapp. J. F. Rolfe, sec
 Dec. 8-12—Jamestown, N. Y. Judge, Burgoit. J. W. Morris, secretary.
 Dec. 8-12—Yorkville Ill. Judge, Tucker A. S. Tarbox, sec.
 Dec. 9-14—Hamilton, O. C. W. Larsh, sec.
 Dec. 9-12—Shreveport, La. Louis Brueggerhoff, sec.
 Dec. 10-12—Plymouth, Mass. Judges, Atherton, Smith, Ballou, E. R. Beaman, sec.
 Dec 10-12—Rutherford, N. J. Judges Staunton and Velton. H. Kretzler, sec.
 Dec. 10-14—San Antonio, Texas. W. A. Springall, sec.
 Dec. 10-13—Litchfield, Ill. W. S. Chamberlain, sec.
 Dec. 14-18—McComb, Ill. Judge, McClave. F. L. Yetter, sec.
 Dec. 14-19—Circleville, O. Judge, Hewes. G. R. Haswell, secretary.
 Dec 14-19—Maquota, Ia. Judge, Warnock. F. T. Johnson, sec.
 Dec. 14-19—Hoopeston, Ill. Judge, Taylor. E. Erickson, sec.
 Dec. 14-18—Mason City, Ia. Judge, Shaner. S. V. Johns, sec.
 Dec. 14-19—Detroit, Mich. Judges, Butterfield, Rigg. S. Z. Harroun sec, 28 Sycamore street.
 Dec. 14-19—Evansville, Ind. D. T. MacClement, sec., 1024 Powell avenue.
 Dec. 14-19—Kankakee, Ill. Judge, Heimlich. E. P. Vining, sec Hospital, Ill.
 Dec 14-18—Ottowa Can. Judge, Butterfield. Geo. Fritz, sec.
 Dec. 15-17—West Brookfield, Mass. Judge, Ballou. E. L. Richardson, sec.
 Dec. 15-18—Niles, Ill. Judge, Herbster. F. Honold, sec.
 Dec. 15-17—Bristol, Vt. G. S. Farr, sec.
 Dec. 15-17—Falmouth, Mass. Judges Stevens and Fletcher. E. P. Davis, sec.
 Dec. 15-18—Fitchburg, Mass. Judges, Howkins, Ball. I. C. Greene, sec., Leominster, Mass.
 Dec. 16 19—Rochester, Minn. Louis E. Nietz, secretary.
 Dec. 15-19—Hazelton, Pa. Judges, Brown and Eckert. J. E. Anderson, secretary.
 Dec. 15-18—Uricksville, O. Judges, Keller and Fell. R. K. Furbay, sec.
 Dec. 16-18—Freeport Me. Judges, Hawkins and Shove. Geo. P. Coffin, sec.
 Dec 16-18—Newburyport, Mass. Judges, Flanders, Smith, Ball, Craft, Goodwin. H. M. Sands, sec. Amesbury Mass.
 Dec. 16-18—West Haven Conn. Judges, Lambert and Atherton. E. J. Crawford, sec.
 Dec. 16-18—Kingston, N. Y. F. E. Miller, sec. Rifton, N. Y.
 Dec. 16 19—Fresno, Cal. G. R. Andrews, secretary.
 Dec. 17-20—Earlham, Ia. Judge, Southard. W. H. Monroe, secretary.
 Dec 17-19—Hackensack. N. J. Geo. Mahe secretary.
 Dec. 21- 24—Aumeston, Ia. Judge, Russel George King, secretary.
 Dec 22-25—Redfield, Ia. Judge, Warnock

L. J. Ober, secretary.
 Dec. 27-31—Nortonville, Kas. Judge, Rhodes. C. D. Stillman, secretary.
 Dec. 23-29—St. Joseph, Mo. Judge, Shellabarger. L. E. Altwein, secretary.
 Dec. 23-25—North Abingdon, Mass. Jno F. Hollis, secretary.
 Dec. 28-Jan. 1—Holland, Mich. Judge, Myers. L. S. Sprietma, secretary.
 Dec. 28-Jan. 2—Lanark, Ill. Judge, Shellabarger. E. S. Leland, secretary.
 Dec. 29-30—Elsberry, Mo. Judge, Shaaner. Otto R. Cannon, secretary.
 Dec. 28-Jan. 2—Dayton, O. Judges Keller, Lane, Dunn. J. C. Elv, secretary.
 Dec. 29-Jan. 1—Meriden, Conn. J. P. Shute, secretary.
 Dec. 29-Jan. 1—High Point, N. C. Judges Brown and Myers. J. L. Thompson, sec.
 Dec. 29-Jan. 1—Wallingford, Conn. Judges, Drevenstedt, Nichols, Lambert, Saylor, Crowther. H. H. Haywood, secretary.
 Dec. 29-Jan. 2—Lititz, Pa. Judges, Bean and Temple. J. W. Bucknaat, secretary.
 Dec. 31—Jan 4—Fremont, Neb. Judge, Felch. W. H. Haven, secretary.
 Dec 30—Jan 1—Georgetown, O. Judge, Tucker. G C Hall, sec
 Dec 22-26—Waterloo, Ind. J E Dilgard, secretary
 Dec 29-Jan 1 Fostoria, O. Judge Green Chas. Mann, secretary
 Dec 20-Jan 1—Manchester, N H F H Balch secretary.
 Jan 4-8—Olney, Ill. Judge Heimlich E E Dalton, secretary
 Jan 4-6—New York City. Compldte corps of judges as usual. H V Crawford, secretary. Montclair N J
 Jan 4-9—Wichita, Kas. Judge Felch H W Schoff, secretary
 Jan 4-11—Milwaukee, Wis. Judges, Burgett and Morgantide. W A Hackbarth secretary, 166 Wyoming place
 Jan 5-8—Lewiston Me. Judges, Hawkins, Lambert, Atherton, Coffin. A L Merrill, secretary, Auburn, Me.
 Jan 5-9—Danville, Ill. Frank B Smith, sec
 Jan 5-8—Grand Rapids, Mich. Judges, Tucker and Sites. F A Votey, secretary
 Jan 5-10—Kansas City, Mo. C S Hunting, secretary, 3817 E 13th Street
 Jan 5-9—St Albans, Vt. Judges, Rapp and Northrop. H M Barret, secretary
 Jan 6-8—Adams, Mass. Judge, Ballou. A W Safford, secretary
 Jan 6 9—Waxahachle, Tex. C T Spaulding secretary
 Jan 6-9—Tiffin, O. Judge, Hewes. V Crabtree, secretary
 Jan 6-9—Austin, Minn. Judge, Holden Frank Cronon, secretary
 Jan 7-9—Clarksburg, W Va. Judge, Ellisen. H D Correll, sec, Morgantown, W Va
 Jan 10-14—Topeka, Kas. Judges, Rhodes, Russell, Savage. J W F Hughes, secretary
 Jan 11-16—Cedar Rapids, Ia. Judges, McClave, Shanklin and Warnock. A J Smith, secretary
 Jan 11-16—Kenosha, Wis. Judge, Ellison, J L Pofahl, secretary
 Jan 11-15—Charleston, Ill. Judge, Rapp C L Carney, secretary
 Jan 11-17—Watertown, Wis. H A Holdridge, secretary
 Jan 12-14—Fort Worth, Tex. J M Jones secretary

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Bantams and their Breeds

Bantam as a rule are hatched late in the fall, which is done in order to reduce them in size. The severity of winter and the lack of insect are obstacles in the way of complete growth, and breeders take advantage of these points, for the principal point in the bantam is smallest size. As there are many varieties of full-fledged fowls, so are there many varieties of bantams. Perhaps the most popular of these birds is the Black-Breasted Red Game. The majestic strut proud carriage, and beautiful contrast of feather, to say nothing of the flowing sickles of the tail, make them an object of beauty to all. They are perfect facsimiles of their larger brethren, possessing their courage, disposition, and table qualities. The Pyles and Yellow Duckwing are well known also, and not equal in beauty to Reds, are fully as desirable. The smallest of the Bantams are perhaps the gamers, and they are nice looking in plumage and carriage. There are also Brahma Bantams and lands. The Seabright are beautiful birds, the hens being laced, but the cocks are untail. The Gold and Silver Seabright are nearly identical in marks, the only difference being the golden and silver shades. In order to preserve the regularity of the lacing, these breeds have been bred in and in, to such an extent as to injure them in vigor. This is noticed from the fact that but few chicks hatch from a clutch of eggs, and hence when ordering eggs from the breeders, our friends may consider themselves fortunate if they get four chicks from a sitting. It is best to buy a trio of fowls in preference to running the risk of failure with eggs. Every little boy or girl should be given a trio of Bantams to begin with. The interest thus created not only amuses, but gives instruction, as quite a degree of skill is required to breed them true to feather. Bantams, though small, are not unprofitable, as they lay fair-sized eggs, and they give quite a proportion of flesh considering the small amount of food consumed by them.—Michigan Poultry Breeder.

Training Chickens Where to Roost.

Around the henhouse where the old hens set, lay and roost is the place I always avoid for a feeding ground for so many get trampled to death. I coop the young chicks in colonies, 20 to 50 in a place, and have all about the same age. Place the coops as far apart as possible. When the cool nights come I take a piece of poultry wire 4 feet high and about 3 rods long, tacking one end to the front of the house, just at the edge of the door. Curve this wire into a kind of half circle and it makes a trap. I get all the household out and the barn force, with poles, aprons and brooms. If the wire is on the east of the door, all the western colony is herded that night, and because they are attacked from the rear and hemmed in they walk straight

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COLONIAL MEDICINE COMPANY, No. 71 BROADWAY, DEPT. 3, NEW YORK.

to the house instead of around it. When these are well trained the fence is moved to the west side and the eastern colony is trained.—N R H in Farm Home.

Shut the poultry house doors every night.

Do not starve your hens nor feed too much, if so you cannot expect to have many eggs.

Much may be done by gradually building up a laying strain in any breed of fowls. This, by breeding only from hens which have proved themselves to be capital layers. It is astonishing what can be done by following this plan for some seasons.

NEW INVENTIONS.

Reported especially for this paper by H. B. Wilson & Co., Patent Attorneys, 8th and F Sts. N. W. Washington, D. C. A Complete Copy of any of these patents will be forwarded to any person by Messrs. Wilson & Co., on receipt of ten cents. Persons ordering Copies must give number of patent.

742,033 Hot water heating system for incubators, Manander M. Johnson, Clay Center, Neb.

742,699 Roost, Chas. H. Mattox, Baker City, Oregon.

742,969 Apparatus for Automatically Feeding poultry or other creatures, Edward Clapp, Montague, Mass.

Jan 12-15-Charlotte, N C Judge, Marshall W B Alexander, secretary

Jan 12 15-Middletown, Conn Judges Card, Nichols W J Kieft, secretary

Jan 12-14-Peterboro, N H Judges, Bal-lou, May W H Spaulding, secretary

Jan 14-20-Lima, O T A Collins, sec

Jan 13-17-Cincinnati, O Judges, Hewes, Orr, Shepard A E Brook, secretary

Jan 13-19-Lockport, N Y Judge, Zimmer W G Walker, secretary

Jan 13-15-Muskegan, Mich Judge, Tucker J A Babcock, secretary

Jan 18-22-Auburn, N Y Judges, Quilbot, Shea, Crocker, Foxton Fred I Roe, sec

Jan 18-22-Traverse City, Mich Judge, L. ne J M Knight, secretary

Jan 13-19-Minneapolis, Minn Judges, Butterfield, Lambert, Holden Geo A Loth, secretary, Box 28

Jan 19-21-Salamanca, N Y Judge, Stillman J Mable, secretary

Jan 19-23-Boston, Mass Complete corps of judges as usual A R Sharp, sec. Taunton, Mass

Jan 20-24-Angola, Ind; Judge, Tucker, C. C. Carlin, secretary.

Jan 20 25-Painesville, O F G Johnson, secretary

Jan 20-22-Nevada, Mo J R Buchanan, secretary

Jan 20-23-Blackwell, Okla Geo M Casson, secretary

Jan 21-25-East Palestine, O Judge, Lambert B S Gorby, secretary

Jan 25-30-Chicago, Ill Complete corps of judges as usual F L Kimmey; secretary, 1213 Manhattan, Chicago

Jan 26-29-Stamford, Conn W R Jessup, secretary

Jan 27-30-Plymouth, Ind Judge, Carver Cary Cummings, secretary

Jan 27 Feb 1-Clinton, Ia Judge, McClave W L McArthur, secretary

Jan 25-30-Delavan, Wis Judges, Russel, Janson Seth W Gregory, secretary

Jan 26-30-New Bedford, Mass Henry T Gridley, sec, North Dartmouth, Mass

Jan 26-30-Harrisburg, Pa J B Gore, sec, Royaltown, Pa

Jan 29-Feb 4-Rochester, N Y E N Walbridge, secretary

Feb 1-4-Kalamazoo, Mich Judge, Tucker J S Carr, secretary

Feb 1-6-Canton, O Judge, Lambert C P Bruce, secretary

Feb 2-6-Columbus, O W A Lott, secretary, Wooster, O

Feb. 5-10-Norwalk, O. Judge, Tucker, T. P. Kellogg, secretary.

Feb 8-12-Saginaw, Mich Judge, Tucker J H Ashton, secretary

Feb 8-14-Indianapolis, Ind Judges, Hewes, Pierce, Lane, Myers, Stoner, Jones C R Millhous, secretary, 2133 S Meridian street

Feb 8-13-Syracuse, N Y D M Green, sec

Feb 11-13-Cambridge, O Judge, Orr Jas G Ford, secretary

Feb 22-27-Pittsburg, Pa J C Moore, secretary, 1119 Penn Avenue.

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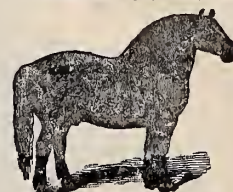
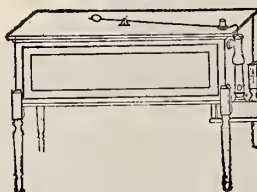
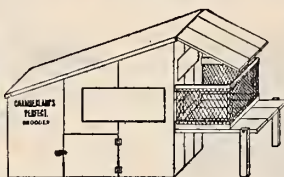
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